Table 23. Remote sensing methods and the indicators to which they apply. **Y** = method collects information on this parameter; **FD** = extensive field data req'd; **EX** = Method and/or protocol is experimental at present; **Model** = method must be combined with a model to address indicator. This material was developed from the 2003 Sonoran Desert Network Land Cover/Use Workshop and follow up discussions with participants.

	METHOD:									
INDICATOR:	MODIS	Aster	ETM+	SPOT	IKONOS	Quick Bird	Airphotos	Airvideo	LIDAR	Hyper- spectral
Measurement Unit	250m/ 1km	15m/ 90m	30m	10m/ 15m	1m/ 4m	0.6m/ 2.4m	Variable*	Variable*	0.15 m Vert 0.30 m Hori <u>z</u>	Variable*
Spectral Bands*	36 bands (nominal)	<u>1</u> 4 bands	7	7	4	4	1*	1 (2 if filters are used)	1-5 frequencies	226
Cost/unit*	Nominally free	Nominally free	\$.0175/ sq. km	French – cost?	\$40/sq. km final product	\$65/sq. km final product	Rel. high aircraft + processing	Rel. high aircraft + processing	Very high aircraft + processing	Ext. high experimental
LAND COVER:										
Vegetation – NDVI, SAVI, EVI	Y	Y	Y	Y	Y	Y				Y-EX
Vegetation – Lifeform			Y+FD	Y+FD	Y+FD	Y+FD	Y	Y		Y-EX
Vegetation – Formation					Y+FD	Y+FD	Y	Y		Y-EX
Vegetation – Alliance					Y?+FD	Y?+FD	Y+FD	Y+FD		Y-EX
Vegetation – Height							Y+FD**	Y+FD**	Y	
Vegetation – Condition	Y+ model									

	METHOD:									
INDICATOR:	MODIS	Aster	ETM+	SPOT	IKONOS	Quick Bird	Airphotos	Airvideo	LIDAR	Hyper- spectral
Vegetation - mortality					Y-EX	Y-EX	Y+FD	Y+FD		
ECOSYSTEM:										
NPP	Y-EX									
Soil movement									Y	
Erosion Potential	Y-EX									
Soil Moisture	Y-EX									
Surface Temperature	Y+ model									
Albedo	Y-EX									
ET	Y-EX									
LAND USE										
Anderson Level I	Y+FD	Y+FD	Y+FD	Y+FD	Y+FD	Y+FD	Y+FD	Y+FD		
Anderson Level II					Y+FD	Y+FD	Y+FD	Y+FD		
Anderson Level III										

^{*} resolution is a function of platform elevation above the feature surface.

** vegetation height is estimated from shadows or with stereo pairing of photographs

²⁶ August 2003